

**AMENDMENTS TO THE SPECIFICATION**

1. Please amend paragraphs [0006] and [0007] as follows:

[0006] It is also an object to provide a mask frame support capable of preventing deformation of the shadow mask.

[0007] It is [still] a further object to provide a mask frame support capable of improving the display quality of a color picture tube.

2. Please amend paragraphs [0009]-[0011] as follows:

[0009] It is still yet another [objet] object to provide a mask frame support for a color picture tube able to reduce the breakdown stress generated outside the color picture tube and from a mask frame.

[0010] It is a further object to provide a mask frame for supporting [for] a color picture tube that is able to reduce reflective waves generated by the mask frame.

[0011] These and other objects may be achieved by using a support to couple a mask frame to a stud formed on an inner side of a panel of a color picture tube having a tube exhibiting a centrally aligned longitudinal axis. The mask frame may have a rectangular hollow cylinder disposed in parallel with the axis and a flange vertically extending from a rear end of the rectangular frame portion and [towards] toward the axis. The support includes a suspending plate disposed in parallel with the axis and provided with a hole

X2  
comp.  
coupled to the stud, a fixing plate fixed on the mask frame, and a vibration absorber connected between the rear end of the suspending plate and the fixing plate and having a predetermined length related to the width of the fixing plate and the suspending plate. The fixing plate is aligned in parallel [to] with the axis and fixed to an outer side of the rectangular hollow cylinder of the mask frame while the vibration absorber is placed on a plane having a first distance from the shadow mask, the first distance being greater than a second distance between the shadow mask and the stud.

3. Please amend paragraph [0013] as follows:

X2  
[0013] FIG. 1 is an exploded view of a shadow mask frame assembly constructed [as] in accordance with the principles of the present invention;

4. Please amend paragraph [0016] as follows:

X4  
[0016] FIG. 4 is an exploded view of a shadow mask frame assembly constructed [by] as a third embodiment of the present invention;

5. Please amend paragraph [0020] as follows:

X2  
[0020] Turning now to the drawings, FIG. 1 shows a shadow mask frame assembly

built according to a first embodiment of the present invention, and FIG. 2 shows a partial cross sectional view of the embodiment illustrated by FIG.1. As shown in FIGS. 1 and 2, a mask frame 14 of a color picture tube, such [like] as a cathode ray tube, has [have] a shape of a rectangular hollow cylinder having a rectangular rim 14H disposed in parallel with a tube axis TX passing through a longitudinal center of the color picture tube and mask frame 14, a central opening formed inside mask frame 14, and a peripheral flange 14V vertically extending from a rear end of rectangular rim [14a] 14H and [towards] toward tube axis TX. Shadow mask 12 is welded on an inner surface 14a of a front end of rectangular rim 14H. Several discrete brackets 160 serving as a support member supporting mask frame 14 within the color picture tube are mounted on at least three sides or corners of mask frame 14 and coupled to a stud 18 to extend radially inwardly from an inner wall 2a of a rectangular glass panel 2.

6. Please amend paragraph [0022] as follows:

[0022] The absorbing effect of the external impact is increased in proportion to a length of vibration absorber 164a. The length W is preferably in a the range of 5-40 mm, and more preferably, in the range of 10-15 mm. Suspending arm [612] 162 is right-angled to connecting arm 164 as shown in FIG. 2, or rounded to the connecting arm 164 as shown in FIG. 3 of a second embodiment.

Al  
Camp

7. Please amend paragraphs [0024]-[0025] as follows:

[0024] Bracket 160 includes a suspending arm 162 disposed in parallel with the tube axis TX, a fixing arm 166 disposed in parallel with suspending arm 162 and spaced apart from suspending arm 162 by a predetermined distance, and a vibration absorber 164 connecting a rear end of suspending arm 162 to a rear end of fixing arm 166. Suspending arm 162, fixing arm 166, and vibration absorber 164 are flat plates in a single body. Suspending arm 162 and fixing arm 166 are parallel to each other while being perpendicular to vibration absorber 164. Suspending arm [62] 162 is provided with a hole 162a coupled to a stud 18. Fixing arm 166 is attached on an outside surface 14b of rectangular rim 14H of mask frame 14.

[0025] The absorbing effect of the external impact is increased in proportion to a distance [DL] W between suspending arm 162 and fixing portion 166. Length W is preferably in the range of 5-40 mm, and more preferably, in the range of 10-15 mm. In order to increase the absorbing effect of the external impact, vibration absorber 164 is disposed so as to be far from shadow mask 12 by a distance LC greater than a distance LS between shadow mask 12 and stud 18. A plane of shadow mask 12 is substantially parallel to a plane of vibration absorber 164 and a plane on which stud 18 is placed.

8. Please amend paragraphs [0028]-[0031] as follows:

[0028] When bracket 160 is disposed between mask frame 14 and the inner wall 2a of panel 2, suspending arm 162 is coupled to stud pin 18 through hole 162a while fixing arm 166 is fixed to the outside surface 14b of rectangular rim 14H of mask frame 14 [while] and vibration absorber 164 is located on the plane spaced apart from shadow mask 12 by distance LC greater than distance LS. The plane on which vibration absorber 164 is located may be the same plane as that on which flange 14V of mask frame 14 is located. For more improved effect of damping the vibration, a width W1 of the bracket 160 is adjusted compared to a distance W between suspending arm 162 and fixing arm 166.

88  
[0029] As described above, the bracket constructed according to the present invention vibrates in a direction parallel to the tube axis TX to offset the vibration generated when [the] an external impact is applied to the shadow mask frame assembly, to avoid reflective waves generated by the mask frame, and to reduce the amount of vibration of the shadow mask, thereby preventing the shadow mask from being deformed.

[0030] A series of simulations were conducted to test the absorbing effect of the bracket of the present invention. [For] In conducting the simulations, three brackets having different lengths of the connecting arm are used in a shadow mask frame assembly of a 19" color picture tube.

[0031] Table 1 shows simulation results of a shadow mask [from assembly having] when the bracket is made according to the principle of the present invention. The bracket is a metal strip having an elastic coefficient of about 100,000~220,000 mPa, a thickness of about 0.5 mm, and a width W1 of about 10 mm. The bracket designed to have three

AS comp.  
different lengths W of the vibration absorber are tested. "G" represents a unit for a breakdown stress level.

9. Please amend paragraph [0032] as follows:

A9  
[0032] As shown in the [table] Table 1, the bracket of the present invention [show] shows markedly improved breakdown stress levels by a maximum of 166% compared to the related art.